Written Testimony for the Subcommittee on Technology and Innovation of the Committee on Science of the U.S. House of Representatives hearing entitled: <u>"The National Institute of</u> <u>Standards and Technology's Role in Supporting</u> <u>Economic Competitiveness in the 21st Century:</u> <u>the FY08 Budget Request"</u>

Peter Murray Vice President, Operations Welch Allyn, Inc.

Who we are

Welch Allyn Monitoring, a division of Welch Allyn, Inc., is located in Beaverton, Oregon. The site currently employs approximately 420 people, up from 270 two years ago. Welch Allyn designs, manufactures, and markets mission critical flexible monitoring solutions that improve patient care and lower healthcare operating costs. Welch Allyn is a key player in the biomedical device industry in Oregon, nationally, and worldwide.

Our company faces increased and ongoing pressures from domestic and foreign competition. Our company was confronted with a critical need to increase profitability, quality, and shorten delivery lead times. The company also wanted to incorporate additional manufacturing capacity from another manufacturing location

How OMEP assisted our company

Welch Allyn felt they needed outside expertise to achieve these objectives and conducted a search of local firms. Welch Allyn decided to work with the Oregon Manufacturing Extension Partnership (OMEP), a NIST MEP network affiliate, to help us achieve a major operational goal of continued improvement of manufacturing processes, systems and capacity building. The company views this goal as essential to long-term financial growth and success. As a corporation, Welch Allyn was faced with difficult decisions regarding consolidation of manufacturing operations from four different U.S. sites. The Beaverton operation, while operating at a high level of quality and capability, sought to strengthen the likelihood of not only maintaining but increasing the amount of manufacturing at their facility. Welch Allyn needed assistance to transforming its entire operation to a culture of continuous improvement.

The overall goal was to create a culture of continuous improvement. This was done by starting with Lean manufacturing to obtain a larger and more immediate payback. The training and implementation was initially focused at the operator level and then expanded throughout the organization. OMEP was selected to work closely with Welch Allyn to provide classroom training, implementation and support, and guidance to help them transform into a Lean enterprise.

Because of Welch Allyn's size and numerous needs, several processes were created to implement their vision of becoming a Lean enterprise.

- 1. A steering committee was created to evaluate opportunities, select Lean projects and Kaizen events, assign resources, and ensure continued focus, and direction. Business needs are clearly established and used to prioritize Lean activities.
- 2. OMEP provided numerous classes to teach the Lean principles and concepts. Principles of Lean, 5S, and Value Stream Mapping were taught as

foundation classes. More advanced Lean and leadership classes have helped support the ongoing transformation.

- 3. Specific Lean projects and Kaizen events used Value Stream Mapping to implement "Future States" with less waste, increased visibility, better flow, less Work in Process (WIP), higher quality, and increased productivity. Team leaders stayed on track by reporting progress at a weekly accountability meeting where they also obtained help in overcoming roadblocks. OMEP helped Team Leaders learn valuable skills as they prepared and presented their results to company and corporate executives at celebratory "close-out" meetings.
- 4. OMEP worked closely with Welch Allyn to establish standards, audits, and a significant metrics program to sustain the gains and to create a continuous improvement environment.
- 5. Throughout the entire process OMEP has been key in developing people within Welch Allyn who can internally drive and support Lean. OMEP has provided significant coaching and mentoring in one-on-one situations. Together, they have developed custom training materials and have shared in providing Lean training.

Results

- Corporate has moved a significant manufacturing operation to Beaverton resulting over 50 new jobs plus an additional 50 jobs from organic growth created in Oregon
- Operations have expanded into a new facility to accommodate the increased growth. There has been over \$600,000 invested in the new facilities
- Welch Allyn has saved nearly \$1 million in direct expenses as a result of implementing Lean
- Inventory has been reduced by more than \$500,000
- Sales of over \$120 mil/year have been retained at the Beaverton location.
- Over 250 employees have received Lean training in a total of 750 training occurrences (most completed numerous classes)
- More than 20 Lean projects and 10 Kaizen events have successfully been completed
- 10 to 15 Lean "Stars" have emerged and are driving daily continuous improvement activities
- Lean methods have been shared and implementation has expanded and is being used throughout the corporate organization.
- Employee morale and daily improvement involvement has significantly increased
- Workforce training and skills investment: Over \$300,000

Why we support MEP:

We have had experience with purely private consulting firms and we are convinced that, based on our experience with OMEP, there are key differences between MEP (a public/private partnership) and private providers;

- What distinguishes OMEP from similar groups who claim to provide the same services is OMEP's unique focus on their client's success and less so on selling future services
- They provided core training and implementation experience to get us started and were able then to adjust their approach as we progressed through our Lean journey.
- Their consultants are both hands on and strategic
- OMEP has been key to our success in making our Lean transformation
- We are continuing to expand our Lean Enterprise and we look forward to continuing to work with OMEP.

The Administration's reduced funding of the program

I understand that the administration wants to cut by 56% the funding for the MEP program to \$46.332 Million for FY08. I am on the Board of OMEP and from a purely local perspective the impact to the Oregon affiliate would be disastrous. If the board were faced with such a funding cut we would likely be forced to dramatically reduce costs (primarily staff) and thereby services. I would expect many of the clients could not afford to make up the difference and OMEP's ability to market to new clients would also be reduced. The loss to the local economy from a withdrawal of OMEP would lead, in my opinion, to a loss of growth for many of the small companies in the area.

I view the federal funding as an efficient use of federal dollars. From my perspective of a board member for OMEP I view the admistration of the organization as a model. I have served on board of several profit and non profit organization and I view OMEP as one of the best run organizations

Appendix: Copy of Oral Presentation



Pete Murray V.P. Operations February 15, 2007

Oral Presentation

The National Institute of Standards and Technology's Role in Supporting Economic Competitiveness in the 21st Century: the FY08 Budget Request

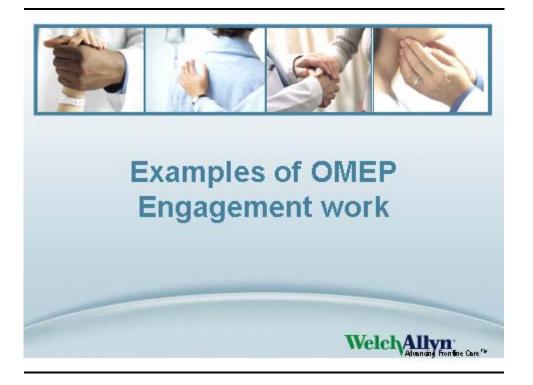
Welch Allyn

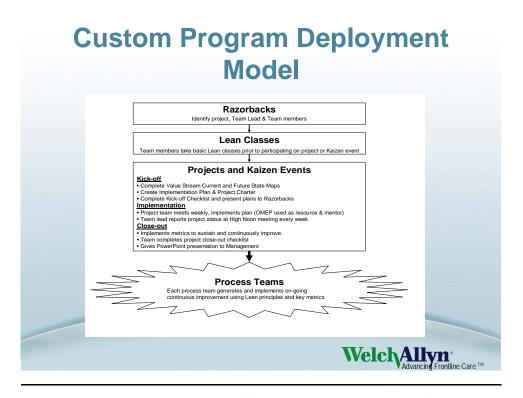
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Getting Started – Finding The Right Partner

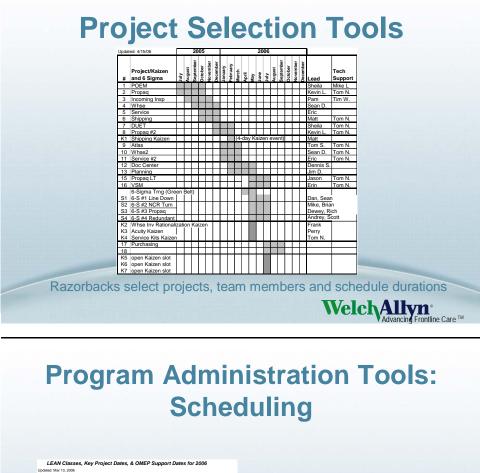
- August '04 Launched company wide CI initiative
- November '04 Site Management organizes to pursue program
- December '04 Applied for State Grant through WSI to fund initial efforts
- January '04 Grant approved, OMEP first meeting
- February '04 OMEP contract signed, assessment begun
- April '04 After 3 weeks delay for FDA inspection, training began

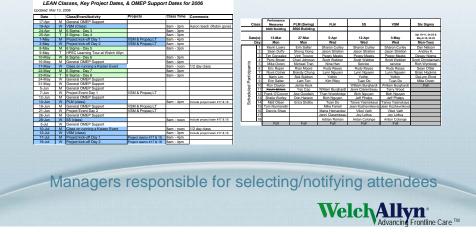
WelchAllyn® Advancing Frontline Care







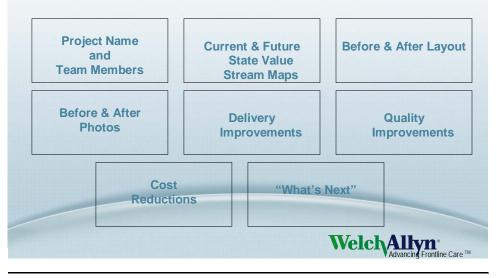




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Updated Project	April 12, 2006 Major Tasks/Actions	Deliverable	Target Compl Date	Percent Complete	Status/Comments	1 2	T T	4 1	ŕ	3 4	1	2	Т	-	1 2	1	Ľ	Task Leader	Required
Planning	Identify & implement strategy/method to reduce manual inputs (import Excel into	Importing items from Excel into Proman	28-Apr	50%				Г			Ē		Т	T				Paul	ProCo & Jin
	Proman) [std Excel format] Start planning those items in	Proman	26-May	0%							h		-			-		Jim & Matt	
	weekly buckets Identify & implement strategy/method to reduce manual inputs (import Excel into Proman)	Importing items from Excel into Proman	28-Apr	50%									T					Paul	ProCo & Jir
	Improve forecast process	Documented and trained forecast process	26-May	20%	Marketing is working on model to assist in developing an accessory forecast		П											Jim & Matt	Kevin, Buye & Team
	Create method to allow opening of work order to trigger elimination of master schedule demand		28-Apr	0%														Paul	ProCo, Jim Matt
	Improve production schedule work order completion process	Documented and trained production schedule work order process	28-Apr	0%														Jim	
	Improve process for stock adjustment of negative balance of purchased parts		28-Apr	0%														Kevin	Frank, Nova & Matt
	Create and implement metrics			25%															
	Prepare project summary & repor	rt																	
	Complete project	Closeout checklist completed			_											1			

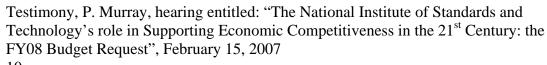


Standardize PowerPoint Summary Presentation



Training & Implementation Accomplishments in First Year

- ✓ Over 250 have completed the Lean course,
- ✓ Over 100 have implemented their training on projects,
- ✓ Over 20 Lean projects and 10 Kaizen events have been completed,
- ✓ Pleasure of seeing 10 15 Cl "Stars" emerge!



Welch Allyn[®] Advancing Frontline Care

Results, Results, Results!

- ✓ Reduced labor expenses >\$1 Million
- ✓ Reduced WIP >\$500k
- ✓ Saved ~2500 ft2 of manufacturing space
- ✓ Added over 100 jobs in the past year (450 FTE in FY06 up from 270 FY04)
- ✓ Great improvement in Morale





The Administration's FY08 funding proposal

- The Administration 56% cut to the funding for the MEP program to \$46.332 Million for FY08 I feel would be a serious blow for the affiliates to overcome
- I sit on the Board of OMEP and I would expect the following to occur if the budget reduction went through;
 - Staff reductions
 - Reduced ability to attract new clients
 - Client base unable to make up revenue shortfall
- The funding model of MEP is a very efficient use of federal dollars and <u>the funding level should be restored.</u>

WelchAllyn[®] Advancing Frontline Care[†]

